

**ABSTRACT OF THE DISCLOSURE****APPARATUS, METHOD, AND COMPUTER PROGRAM FOR TUNNELING TCP  
BASED CLIENT-SERVER APPLICATIONS**

Disclosed is a tunneling system, method and computer program product. The  
5 system includes a service publishing/tunneling server coupled to a wide-area network;  
and a service proxy, coupled to one or more computer systems, for implementing one or  
more service proxy functions; wherein a TCP service for the one or more client computer  
systems is available from the server through the service proxy. The method includes  
connecting a service proxy to a service publishing/tunneling server, wherein the server is  
10 coupled to a wide-area network and the service proxy is coupled to one or more computer  
systems for implementing one or more service proxy functions; sending, from the proxy,  
publishing information for a particular service to the server; c) receiving a service key for  
the particular service from the server; and d) using the service key to provide the  
particular service to the one or more client computer systems from the server through the  
15 service proxy. A computer program product including a computer readable medium  
carrying program instructions for tunneling TCP services when executed using two or  
more computing systems each coupled to a global area network, the executed program  
instructions executing a method, the method including connecting a service proxy to a  
service publishing/tunneling server, wherein the server is coupled to a wide-area network  
20 and the service proxy is coupled to one or more computer systems for implementing one  
or more service proxy functions; sending, from the proxy, publishing information for a  
particular service to the server; receiving a service key for the particular service from the  
server; and using the service key to provide the particular service to the one or more client  
computer systems from the server through the service proxy.